



Prevent Air Pollution at the Source: Schools Chemical Cleanout

Wednesday, September 15, 2010 1:00 – 2:30 PM EST



Objectives

- Learn about the importance of performing a chemical cleanout at your school.
- Gain insight on how to establish a chemical management plan as part of your comprehensive IAQ management program.
- Discover effective steps all schools can take to responsibly manage chemicals.

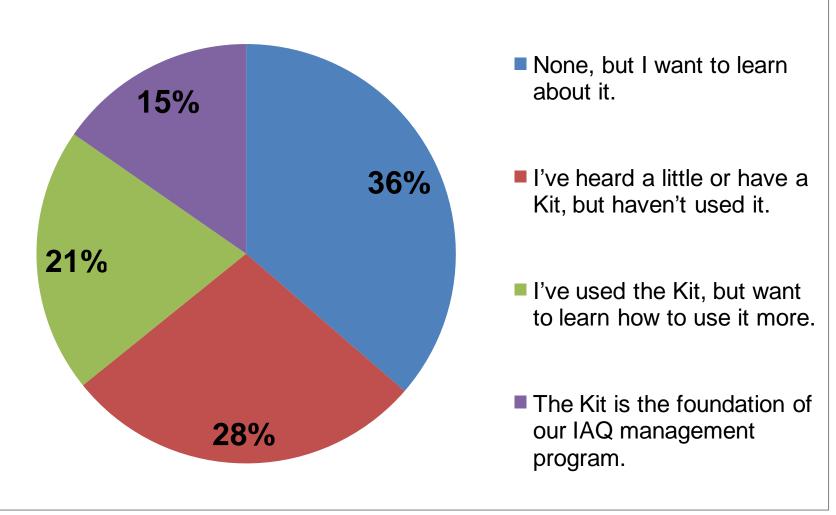


Today's Webinar Presentation and Materials

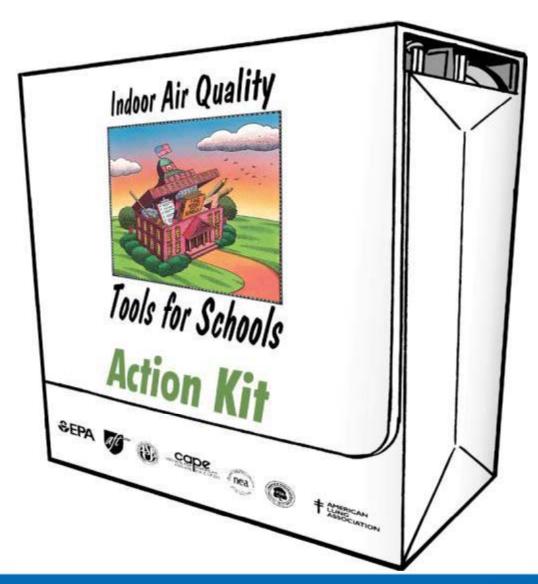
- PowerPoint slides, a Questions and Answers document and a list of resources will be available to you by the end of the month on the IAQ Tools for Schools website.
 - www.epa.gov/iaq/schools/webconferences.html







IAQ Tools for Schools Program



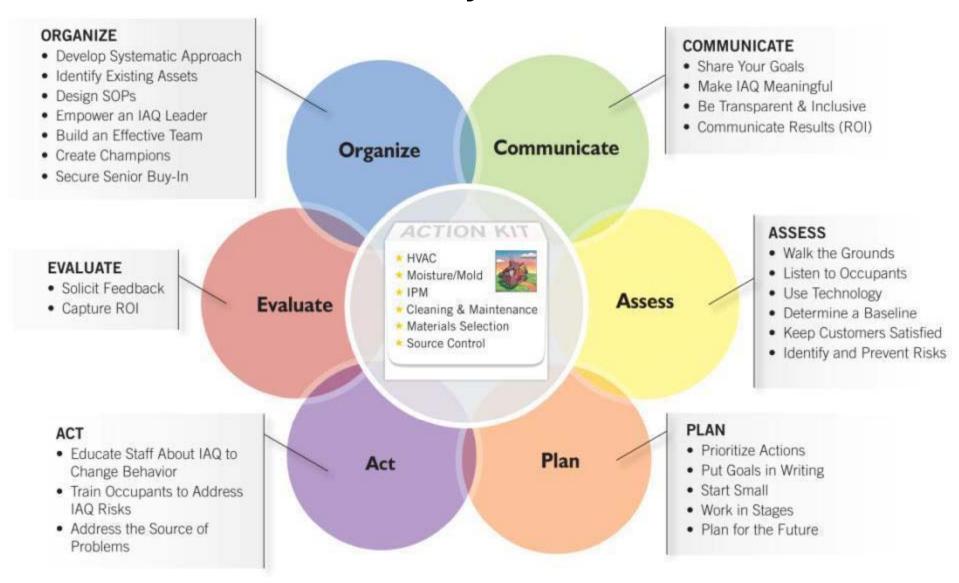


The Framework for Effective School IAQ Management





The Framework for Effective School IAQ Management: Six Key Drivers



The Framework for Effective School IAQ Management: Six Technical Solutions





The Framework for Effective School IAQ Management:

Six Technical Solutions

Quality HVAC

- Inspect HVAC systems regularly
- Establish a maintenance plan
- Change filters regularly and ensure condensate pans are draining
- Provide outdoor air ventilation according to ASHRAE Standard or local code
- Clean air supply diffusers, return registers, and outside air intakes
- Keep unit ventilators clear of books, papers, and other items

Control of Moisture/Mold

- · Conduct routine moisture inspections
- Establish mold prevention and remediation plan
- Maintain indoor humidity levels between 30% and 60%
- Address moisture problems promptly
- Dry wet areas within 24-48 hours

Strong Integrated Pest Management (IPM)

- Inspect and monitor for pests
- Establish an IPM plan
- Use spot treatments and baits
- Communicate with occupants prior to pesticide use
- Mark indoor and outdoor areas treated with pesticides





Effective Cleaning & Maintenance

- Conduct routine inspections of school environment
- Develop a preventative maintenance plan
- Train cleaning/maintenance staff on protocols
- Ensure material safety data sheets (MSDS) are available to staff
- Clean and remove dust with damp cloth
- · Vacuum using high-efficiency filters

Smart Materials Selection

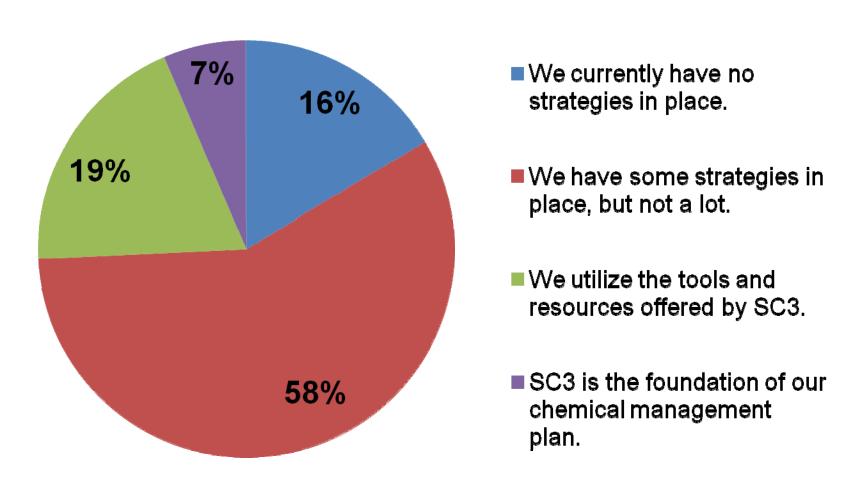
- Maintain products inventory
- Develop low-emitting products purchasing and use policies
- Use only formaldehyde-free materials
- Use only low-toxicity and low-emitting paint
- Select products based on product rating systems
- Use least toxic cleaners possible (only those approved by the district)

Aggressive Source Control

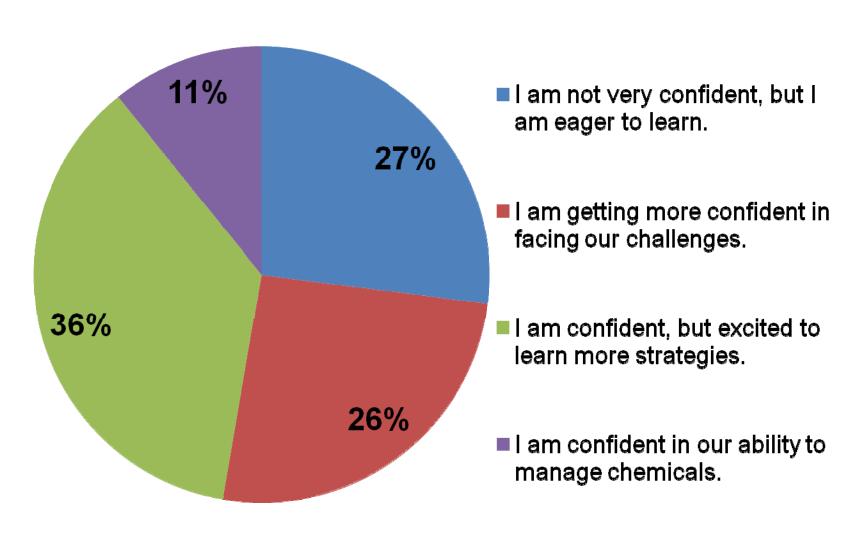
- Conduct regular building walkthrough inspections
- Test for radon; mitigate if necessary
- Implement a hazardous materials plan (use, label, storage and disposal)
- Establish a school chemical management and inventory plan
- Implement Smoke-Free policies
- Establish an anti-idling school bus policy
- Use walk-off mats at building entrances
- Conduct pollutant-releasing activities when school is unoccupied

Indoor Air Quality (IAQ)

What strategies does your school currently have in place for responsible chemical management?



How confident do you feel in your school's approaches to chemical management?



Introductions

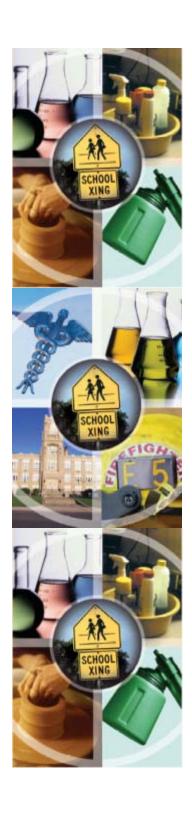
Facilitator:

 Michele Curreri, Indoor Air Quality Tools for Schools Program, U.S. Environmental Protection Agency

Speakers:

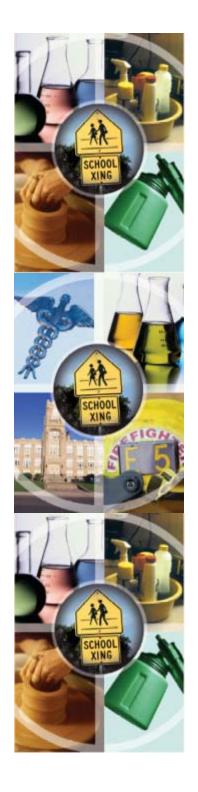
- Kristina Meson, Schools Chemical Cleanout Campaign, U.S. Environmental Protection Agency
- Francine Locke, Office of Environmental Management and Services, School District of Philadelphia, Pennsylvania
- Michelle Lusk, Cement Kiln Recycling Coalition, Virginia





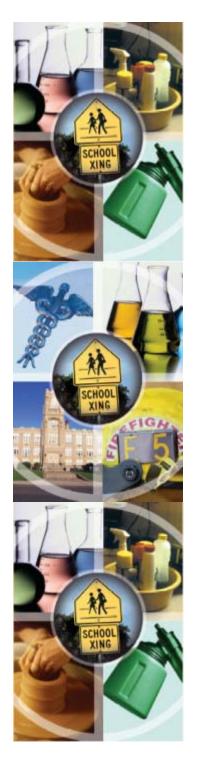
Creating a Healthy School Environment Schools Chemical Cleanout Campaign (SC3)

Indoor Air Quality Tools for Schools
Webinar Series
15 September 2010



The Next 15 Minutes

- Overview of SC3 program
- Key elements of SC3 program
- Moving toward Action
- Sharing insights and ideas
- Putting it all together



SC3 Goals

 Remove outdated, unknown and unneeded chemicals from K-12 schools.

 Raise awareness of chemical issues in schools and promote sustainable solutions.

 Prevent future mismanagement through training, curriculum change, and longterm solutions.



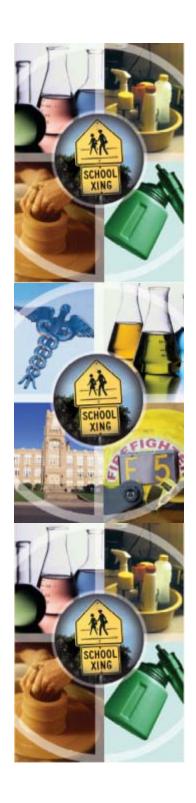
SC3 Support

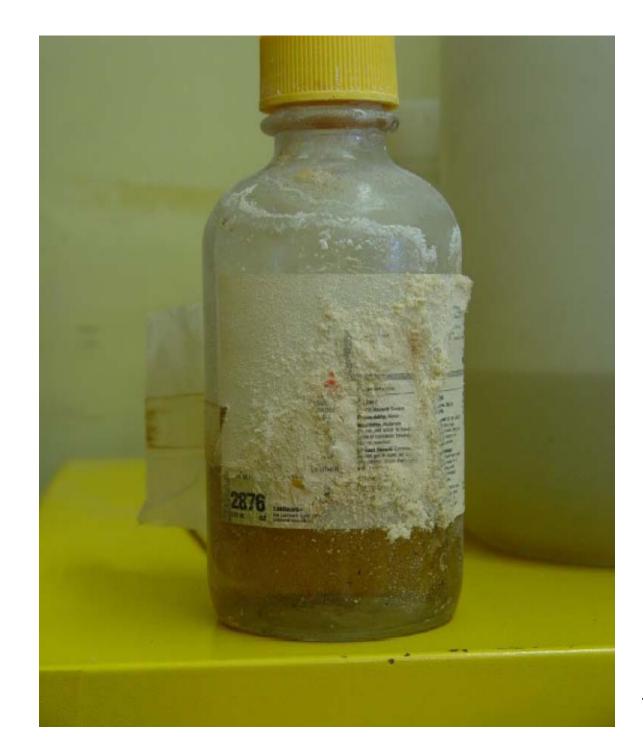
 Tools: to assist schools design and implement a responsible chemical management program.

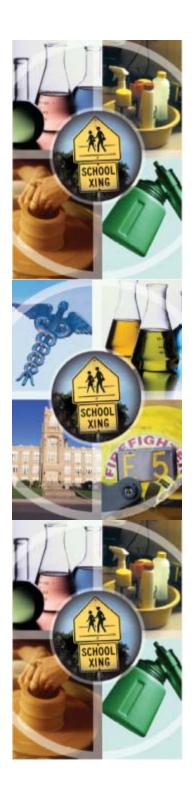
 Partner Network: to bring community volunteers with expertise and resources to schools in need of assistance.



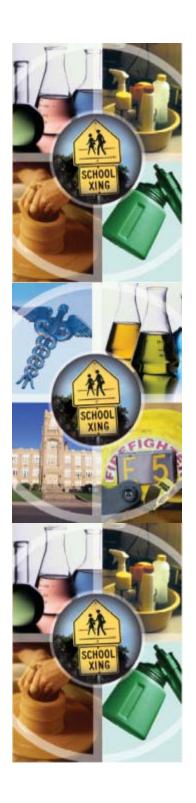




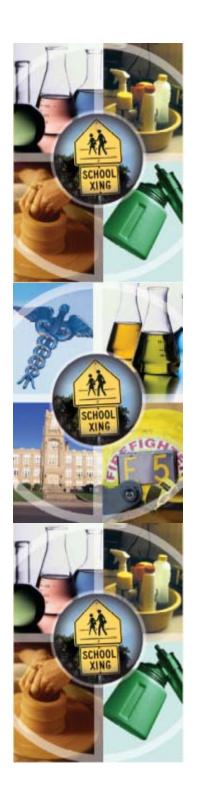




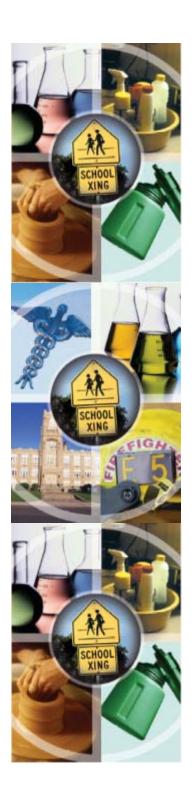






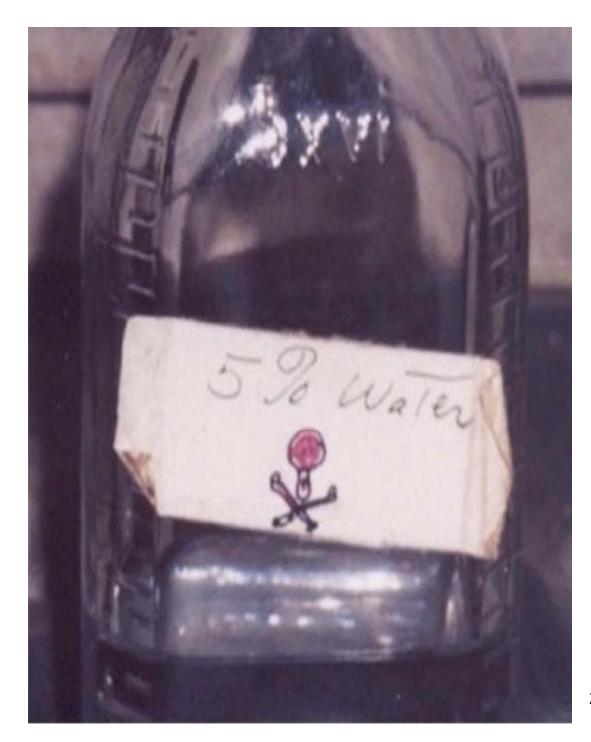














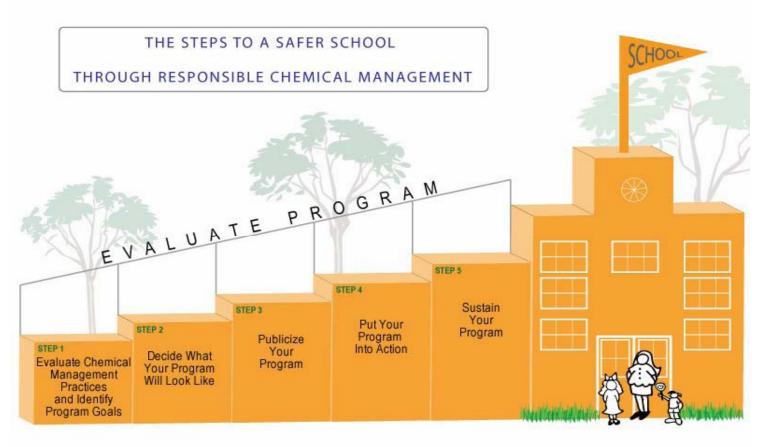
Potential Incidents

Imminent Risk if water level drops ½ inch spontaneously ignites





Steps for Creating a Responsible Chemical Management Program

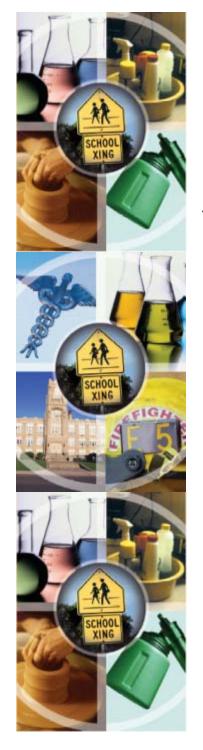




It's All About Teamwork!

Administrators, teachers, community members, facilities personnel, industry partners





School Benefits

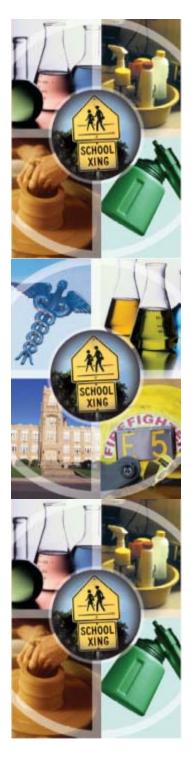
Are many!











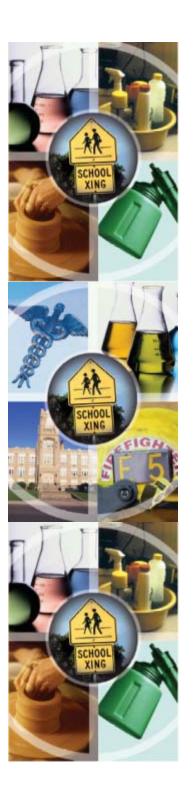
Partner Benefits

 Pride and satisfaction from improving school health and safety;

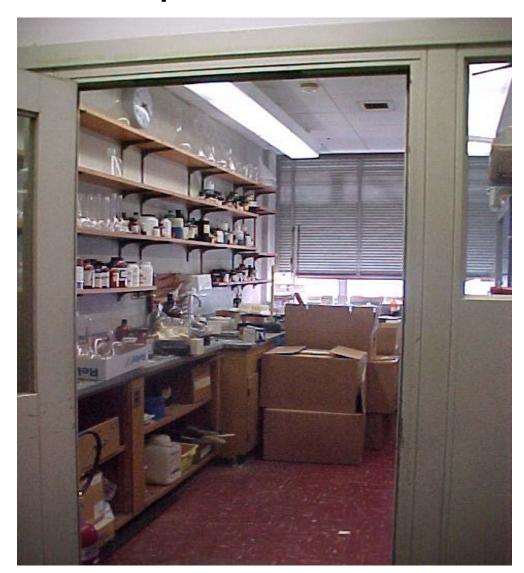
Enhanced image as community leader;

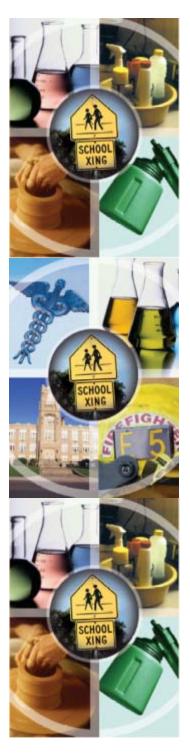
Local and federal recognition;

Organizational visibility.



Partnerships Produce Results!





Remember:

Every school is unique!

 Build on existing healthy school environments programs.

 Find the solutions that fit your needs.



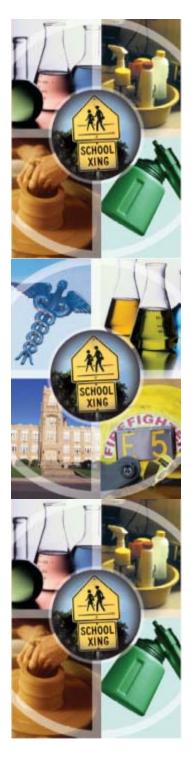
Preparing to Collaborate with a Partner

- Where are chemicals located;
 - What quantity of chemicals are stored, and quantity of chemicals that may need removal;
 - The general condition of the chemical containers;
 - The number of facilities that need help; and,
 - The number of students and staff affected.



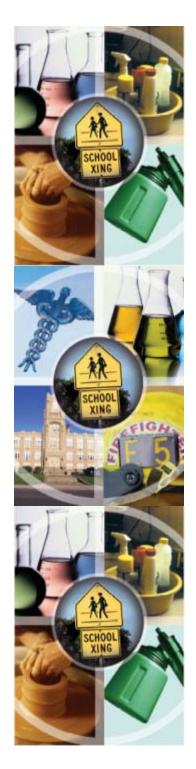
Preparing to Collaborate with Partners

- The school should have support from its leadership;
- The school should have an idea of what assistance they need and their priorities;
- The school should have a timeframe for planning process and implementation of various steps.
- An SC3 team for the school or school district should be in place or at least envisioned;



Questions Partners Should Consider

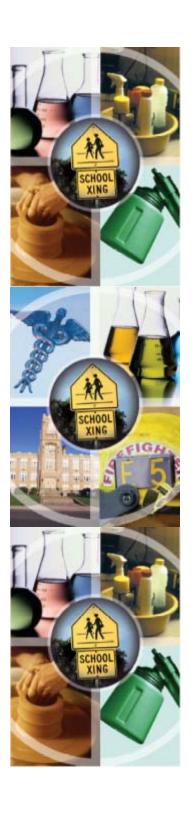
- Where is your organization located?
- Has your organization ever worked with a school or school district?
- What type of expertise can you offer to a school?
- What other organizations might you enlist to build a partnership team?



Getting Started: Helpful Tools and Resources

www.epa.gov/SC3

- SC3 Video: Safe Chemical Management in Your School
- SC3 Workbook: Building Successful Programs to Address Chemical Risks in Schools
- Green Cleaning Fact Sheet
- Building Successful Programs to Address Chemicals in Schools: State Summaries
- Success Stories
- Comprehensive Partner Page

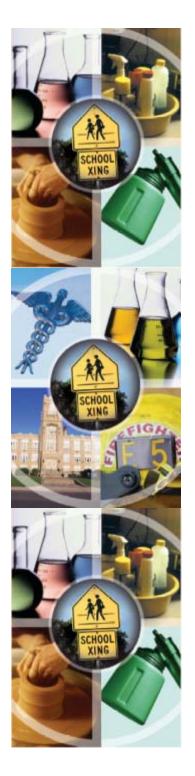


For More Information

Kristina Meson US EPA

Office of Resource Conservation and Recovery (703) 308-8848

Meson.kristina@epa.gov



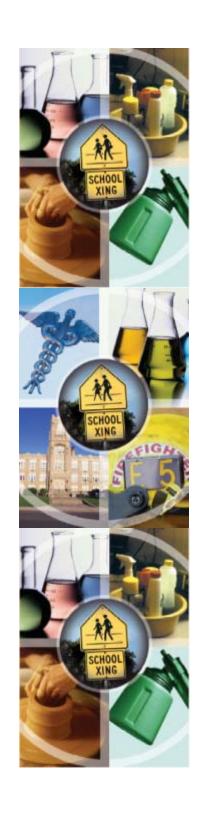
Establishing a School Chemical Management Plan as Part of an Overall Indoor Environmental Quality Program



OFFICE OF CAPITAL PROGRAMS



Indoor Air Quality Tools for Schools
Webinar Series
15 September 2010



School District of Philadelphia Philadelphia, Pennsylvania

Profile

District Type: Urban

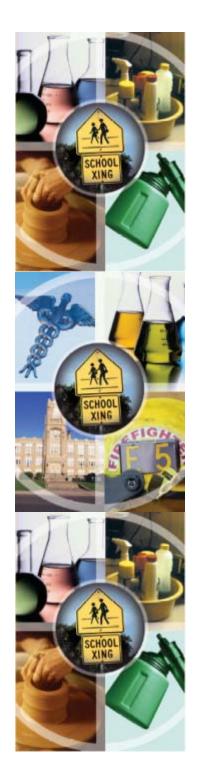
Students: 163,000

Staff: 23,976

Number of 433

Facilities:

Facility Age Range: 0-120 years; Avg. 63 years



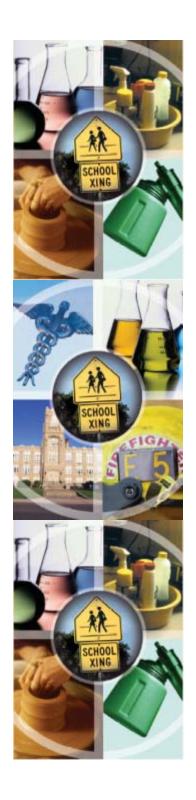
EPA Self-Disclosure Audit

Multi-Media and AHERA

The School District of Philadelphia has voluntarily participated in an EPA self-disclosure audit since 2008.

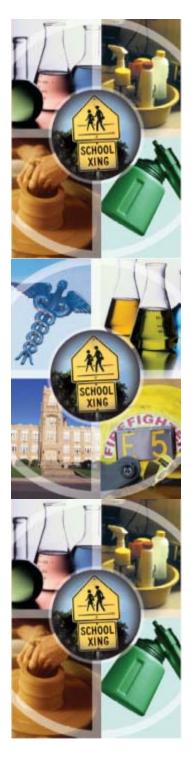
Positive Experience!

Several programs have evolved from the audit including a Universal Waste Management and a Laboratory Chemical Management Program.



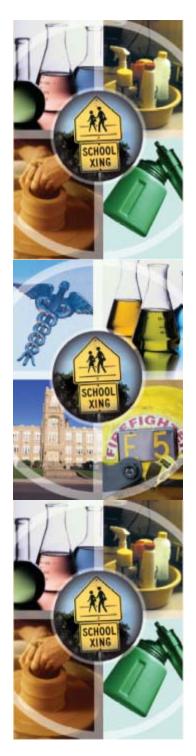
The School District of Philadelphia's IEQ Management Program

- Overall IEQ Program Goal: Indoor Environmental Quality (IEQ) Excellence for every school that supports academic achievement by providing facilities that are healthful and conducive to learning..
- Potential Indicator: The number of Indoor Environmental Quality (IEQ) Violations at each school. For example: Chemical Management Violation improperly stored chemicals. Corrective action Chemicals are properly stored and teacher, administrator, and/or facility manager is supplied with the support needed to provide proper chemical management.



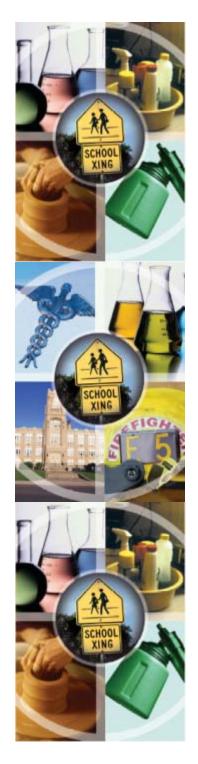
The School District of Philadelphia's IEQ Management Program

- Performance Target for Indicator: Zero IEQ issues.
 - Three possible outcomes for indicator per facility:
 - Hit Target IEQ Excellence zero issues
 - Making Progress
 - Positive movement, but unattained goal
 - Needs Improvement
 - Lack of positive progress from baseline
- Schools achieving the highest performance target will be designated as "Best Practice IEQ" schools.
- Schools with little or no progress will receive additional support.

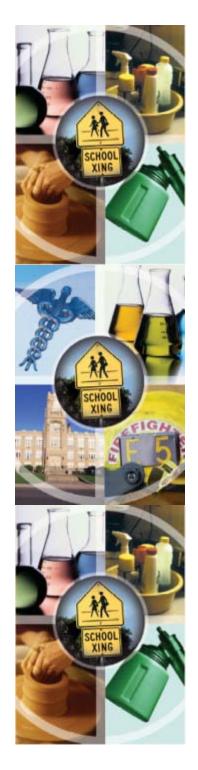


Key Components

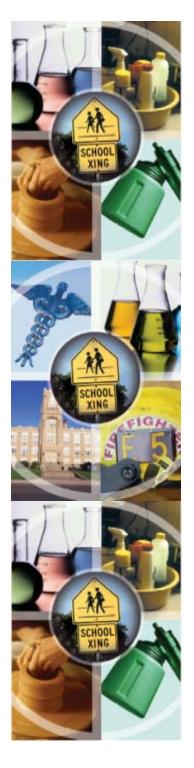
- Put the program in writing
- Provide training
- Define an Approved Chemical List
- Create a current MSDS book and CD. Update periodically



- Obtain guidance from your Local Fire Department
- Determine criteria for removing chemicals from a facility's inventory Our District's criteria are:
 - 1. Poor/deteriorated/damaged storage containers
 - 2. Unlabeled
 - 3. Unapproved
 - 4. Expired/outdated

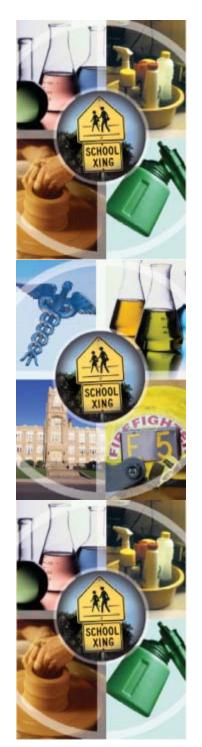


- Identify, inspect and inventory all chemical storage areas
- Perform corrective actions in a timely fashion:
 - 1. Label chemical containers & storage areas
 - 2. Properly dispose of chemicals
 - 3. Create waste removal policies and continuous cycle of pick-ups



• Restrict the purchase of unapproved chemicals and large quantities of any chemical.

• Develop a mechanism to add new chemicals to the approved list.



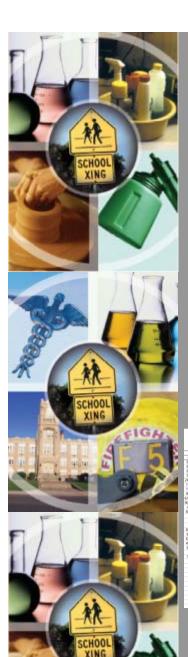
Approved Chemical List - 284 chemicals

How was it created?

Environmental Consultant

Result:

- Approved chemicals have academic curriculum justification.
- Reduced exposure to students.
- Purchased only from approved list.
- Developed mechanism for adding new chemicals to approved list.



Proper Chemical Labeling & Storage

All Chemicals must be labeled with chemical name and segregated by hazard class:

RED: Flammable.

BLUE: Health Hazard.

YELLOW: Reactive and oxidizing reagent.

WHITE: Corrosive.

GRAY, GREEN or ORANGE: Presents

no more than moderate hazard.

519357-015	ORGANIC	199995050	INORGANIC			
CAS#	CHEMICAL	RATING		CHEMICAL	RATING	
50-81-7	Ascorbic Acid	0	9002-18-0	Agar	1	
8015-86-9	Carnauba Wax	- 0	7429-90-5		.0	
68855-54-9	Celte	1	10034-76-1	Calcium Sulfate (Herni)	0	
9004-34-6	Cellulose	1	10101-41-4	Calcium Sulfate (Di)	0	
7440-50-8	Copper	0	mixture	Dish Detergent	0	
548-62-9	Crystal Violet	1	7440-59-7	Helium	1	
50-99-7	Dextrose	1	7722-84-1	Hydrogen Peroxide (<4%)	1	
57-48-7	Fructose	0	7439-89-6	Iron Metal	0	
59-23-4	Galactose	0	7439-89-6	Iron Powder	1	
9000-70-8	Gelatin	0	7647-14-5	Sodium Chloride	0	
50-99-7	Glucose	0	7440-31-5	Tim Metal	0	
9000-01-5	Gum Arabic	1	7440-66-6	Zinc Metal	1	
	Immersion Oil	1				
9001-57-4	Invertage	0				
63-42-3	Lactore	0				
8006-54-0	Lanolin	1				
1393-92-6	Litmus	1				
69-79-4	Maltose, D- (Anhyd)	0				
6363-53-7	Maltose, D- (Mono)	0				
471-34-1	Marble Chips					
8012-95-1	Mineral Oil	1				
8002-74-2	Paraffin	0				
73049-73-7	Peptone	2				
144-55-8	Sodium Bicarbonate	0				
9005-84-9	Starch	0				
57-50-1	Sucrose	0				

ORGANIC				INORGANIC			
CAS#	CHEMICAL	RATING	CAS#	CHEMICAL	RATING		-
64-19-7	Acetic Acid (<1M)	0	12125-02-9	Ammonium Chloride	2		ORGANI
64-19-7	Acetic Acid (XM)	3	7758-94-3	Ferrous Chloride (Anhyd)	2	CAS#	CHEMIC
64-19-7	Acetic Acid (1M - 6M)	2	7647-01-0	Hydrochloric Acid (<1M)	1	8004-87-3	Methyl V
50-21-5	Lactic Acid	3	7647-01-0	Hydrochloric Acid (>6M)	3	61-73-4	Methylene Ellu
437-29-8	Malachite Green	2	7647-01-0	Hydrochloric Acid (1M-EM)	2	7220-79-3	Methylene B
110-16-7	Maleic Acid	3	7553-56-3	lodine	2		
119-36-8	Methyl Salicylate	3	7697-37-2	Nitric Acid (<1M)	3	59-67-6	Naci
485-47-2	Ninhydrin	3	7697-37-2	Nitric Acid (>6M)	3	0049-47-6	Parces
153-56-6	Ovalic Acid (Di)	3	7697-37-2	Nitric Acid (1M-6M)	3	143-74-8	Phenol F
001-75-6	Pepsin	2	mindure	pH 10 Buffer NH40H	2	77-09-8	Phenolohti
mixture	pH 4 Buffer Acetate	2	mildure	pH 10 Buffer Borate	2	67-66-6	Propylene I
877-24-7	pH 4 Buffer Biphthalate	2	mindure	pH 10 Buffer Clear	2		
	pH 7.4 Buffer Tris	- 2	midure	pH 7 Buffer Phosphate	3	mixture	Ringer's Sc
	Polyurethane Foam-Part A	3	7664-38-2	Phosphoric Acid (<1M)	2	11121-40-6	Rose Be
	Polyurethane Foam-Part B	3	7664-38-2	Phosphoric Acid (>6M)	3	127-09-3	Sadum Acetat
877-24-7	Potassium Hydrogen Phthalate	2	7664-38-2	Phosphoric Acid (TM-6M)	3	6131-90-4	Sodium Aceta
69-72-7	Salicylic Acid	- 2	1310-58-3	Potassium Hydroxide (<1M)	2	68-04-2	Sedium C
532-32-1	Sodium Benzoate	- 2	1310-58-3	Potassium Hydroxide (HIM)	3	54-21-7	Sedum Sal
497-19-8	Sodium Carbonate	2	1310-58-3	Potassium Hydroxide (1M-6M)	2		
85-83-6	Sudan IV	2	mixture	Soda Lime	3	85-86-9	Sudan
	Sudan IV Solution	2	7681-38-1	Sodium Bisulfate (Mono)	3	85-86-9	Sudan II Alcoh
76-61-9	Thymol Blue	2	7631-90-5	Sodium Bisuffite	2	89-83-8	Thymo
			1310-73-2	Sodium Hydraxide (<1M)	2	mixture	Universal In
			1310-73-2	Sodium Hydraxide (>6M)	3	57-13-6	Urea
			1310-73-2	Sodium Hydroxide (1M-6M)			

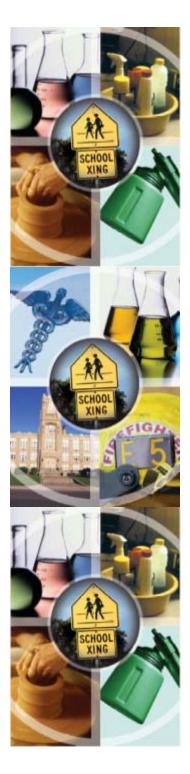
44.07	ORGANIC	nove store	INORGANIC			
CAS#	CHEMICAL	RATING	CAS #	CHEMICAL	RATING	
8004-87-3	Methyl Violet	2	7785-87-7	Manganese (I) Sulfate (Arityd)	3	
61-73-4	Methylene Eliue (Anhyd)	2	10034-96-5		2	
7220-79-3	Methylene Elius (Tri)	2	7447-40-7	Potassium Chloride	2	
59-67-6	Nacin	2	13746-66-2	Potassium Ferricyanide	2	
8049-47-6	Pancrestin	2	7681-11-0	Potassium lodide	2	
143.74-8	Phenol Red	2	7758-11-4	Potassium Phospohate (DI)	2	
77-09-8	Phenolohthalein	2	7778-77-0	Potassium Phospohate (Mono)	2	
67-55-6	Propylene Glycol	2	7778-63-2	Potassium Phospohale (Tri)	2	
mixture	Ringer's Solution	2	333-20-0	Potassium Thiocyanate	2	
11121-48-5	Rose Bengal	2	63231-67-4	Silica Gel	2	
127-09-3	Sodium Acetate (Anhyd)	2	1330.43.4	Sodium Berate	2	
6131-90-4	Sodium Azetate (Hyd)	2	7647-15-6	Sodium Bromide	2	
68-04-2	Sodium Citrate	2	7681-82-5	Sodium ledide	2	
64-21-7	Sodium Salicitate	3	7558-79-4	Sedium Phosphate (Di-Anhyd)	2	
85-86-9	Sudan III	2	7782-85-6	Sodium Phosphate (Di-Hepta)	2	
85-86-9	Sudan III Alcohol Solution	2	10049-21-5	Sodium Phosphate (Mono)	2	
89-83-8	Thymol	2	7757-83-7	Sodium Sulfite	3	
mixture	Universal Indicator	2	540-72-7	Sodium Thiocyanate	2	
57-13-6	Urea	3	7772-98-7	Sodium Thiosulfate (Anhyd)	3	
			10102-17-7	Sodium Thiosulfate (Penta)	2	
			7772-99-8	Stannous Chloride	3	
			14807-96-6	Talc	2	
			1314-13-2	Zinc Oxide	- 9	

ORGANIC			INORGANIC			
CAS #	CHEMICAL	RATING		CHEMICAL	RATING	
77-92-9	Ottric Acid	2	6434-52-2	Ammonium Nitrate	3	
			10043-52-4	Calcium Chloride (Anhyd)	2	
			7770-54-3	Calcium Hypochilorte	3	
			10124-37-5	Calcium Nitrate (Antryd)	3	
			13477-34-4	Calcium Nitrate (Tetra)	2	
			7709-45-9	Copper Bromide	2	
			3251-23-8	Copper Nitrate (Anhyd)	3	
			19004-19-4	Copper Nitrate (Hemi)	2	
			10031-43-3	Copper Nitrate (Tri)	2	
			7782-61-8	Ferric Nitrate (solution)	3	
			10421-48-4	Ferric Nitrate (powder)	3	
			10099-74-8	Lead Nitrate	3	
			7790-69-4	Lithium Nitrate	2	
			10377-60-3	Magnessum Nitrate (Anhyd)	2	
			13446-10-9	Magnesium Nitrate (Hexa)	2	
			1313-13-9	Manganese Disside	2	
			3011-04-9	Potassium Chlorate	3	
			7778-50-9	Potassium Dichromate	3	
			7758-05-6	Potassium Iodate	3	
			7757-79-1	Potassium Nitrate	3	
			7722-64-7	Potassium Permanganate	2	
			7761-88-8	Silver Nitrate	3	
			7631-99-4	Sodium Nitrate	2	
			7757-82-6	Sodium Sulfate	2	
			10042-76-9	Strontium Nitrate	2	
			10196-18-6		3	
			1314-98-3	Zinc Suffide	3	

Popotivo

	ORGANIC		INORGANIC			
CAS #	CHEMICAL	RATING	CAS#	CHEMICAL	RATIN	
67-64-1	Acetone	2	7782-42-5	Graphite	2	
71-36-3	Butanol	3		lodine Tincture	2	
75-20-7	Calcium Carbide	3	7439-95-4	Magnesium Metal	2	
9000-71-9	Casein	-2	7704-34-9	Sulfur - Precipitated	2 3 2	
573-58-0	Congo Red	3	8001-25-0	Vegetable Oil	2	
9000-92-4	Diastase Malt	2				
64-17-5	Ethanol	2				
141-78-6	Ethyl Acetate	3				
60-00-4	EDTA	2				
110-54-3	Hexane	3				
67-63-0	Isopropanol	1 (3)				
69-65-8	Manntol	2				
67-56-1	Methanol	3				
	Molisch Reagent	3				
112-80-1	Oleic Acid	3				
71-23-8	Propanol	3				
57-11-4	Stearic Acid	2				
87-69-4	Tartaric Acid	2				
98988-92-1	Wright's Stain Solution	2				
7440-66-6	Zinc Powder	3				

These are storage area labels with hazard class at top, color-coded with lists of all approved chemicals under the specified hazard class.



Labeling Storage Areas

NFPA Diamond and HMIS Label (Hazardous Material Information System)

YELLOW REACTIVITY HAZARD

4 – blay detanate 3 – Shock or heat may

2 - Violent chemical

1 - Unstable if heated

0 - Stable

CHART RED FIRE HAZARD 4 - Deadly 3 - Extreme Danger 2 - Hazardour 1 - Sightly Hazardous 0 - No Health Threat RED FLASHPOINTS 4 - Below 75°F 3 - Below 100°F 1 - Above 200°F 0 - Will not burn

RATING EXPLANATION

Danger sign on Chemical Storage Area

WHITE SPECIFIC HAZARD

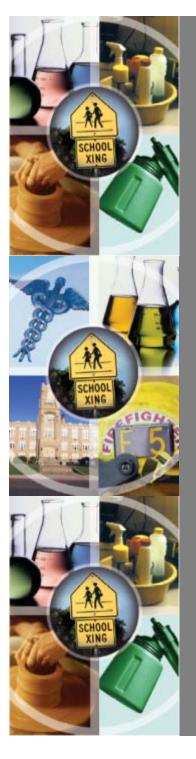
OX – Oxidizer ACID – Acid

ALK - Alkali

P - Polymerizes

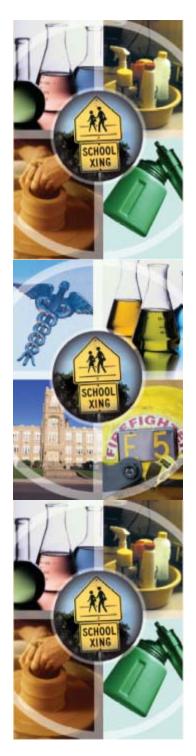
CORR - Corresive W - Use NO WATER





Inventory

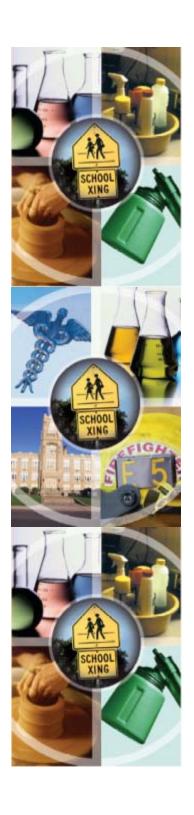
- Conduct a baseline inventory.
- Work with EPA's SC3 Program for Industry Partners who can help with this process.
- NEVER involve students when doing this – other than



Waste Disposal Process

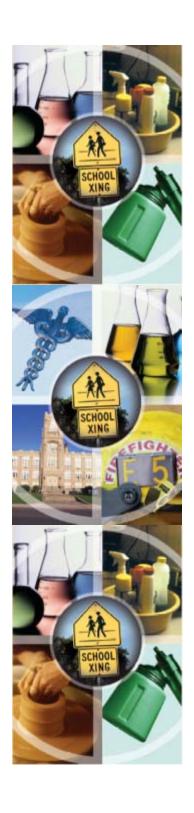
All waste should be:

- Clearly labeled and dated
- Segregated by type and compatibility
- Labeled as "Hazardous" or "Potentially Hazardous" with the date and type of hazard
- Inspected for leaks and damage regularly
- Stored until properly disposed
- Never go to a drain! Label sinks "No Chemicals!"
- Tracked disposal



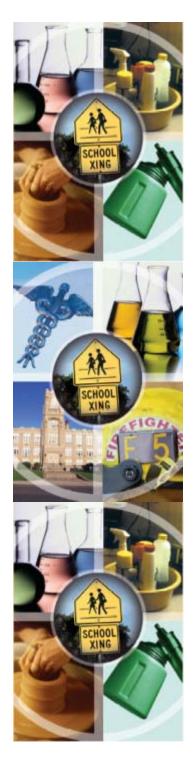
Recap of Key Components

- Re-Audit schools for approved chemicals.
- Maintain current active chemical inventories. Perform periodically.
- Ensure the current MSDS are easily accessible – and provided to local Fire Department
- Properly store and label all chemicals.
- Have a chemical disposal procedure.



Recap of Key Components

- Have a sustainable written program
- Baseline Assessment
- Provide training periodically
- EPA Self-Disclosure Audit
- SC3 Industry Partners

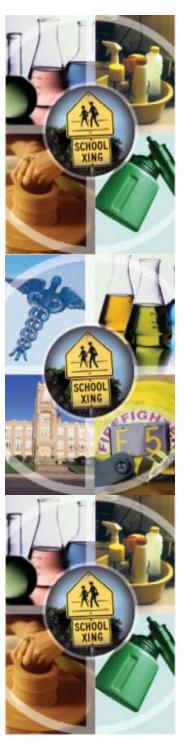


Our Results So Far...

• Decrease in emergency responses to chemical spills.

 Decrease in number of emergency chemical clean-outs of storage areas when staff change classrooms/labs, or reorganization of facilities.

• Bottom Line – Safer environments while supporting the academic curriculum!



Resources

- Schools Chemical Cleanout Campaign Lessons Learned Report, January 30, 2009, TechLaw, Inc., for the USEPA;
- Laboratory Waste Minimization and Pollution Prevention, A Guide for Teachers in Pennsylvania, June 2003, by the Pacific Northwest National Laboratory, operated by Battelle Memorial Institute for the U.S. Department of Energy under Contract DE-AC06- 76RLO 1830;
- Safety Guidelines for Technology Education & Elementary Science/Technology Education, Pennsylvania Department of Education, Bureau of Curriculum and Academic Services, Division of Curriculum and Instruction;
- **School Chemistry Laboratory Safety Guide**, October 2006, NIOSH, US Consumer Product Safety Commission and CDC.
- Pennsylvania Chemical Industry Education Foundation (717) 232-6681.
- American Chemical Society. (1993). Less is better: Laboratory chemical waste management for waste reduction (2nd ed.). Washington, DC: Author.
- American Chemical Society (1995). Model Chemical Hygiene Plan for High Schools. Washington, DC: Author. Available on disk: MacOS or MS-DOS.
- National Research Council. (1983). Prudent practices for disposal of chemicals from laboratories. Washington, DC: National Academy Press.

Partnering to Make a Difference in Our Schools

Cement Kiln Recycling Coalition and the School Chemical Cleanout Campaign (SC3)

Indoor Air Quality Tools for Schools
Webinar Series
15 September 2010



• Who is CKRC?

• The Cement Kiln Recycling Coalition is a national trade association representing cement manufacturers in the U.S. that recycle the value in energy-bearing wastes by using them as fuel in kilns that produce Portland cement. CKRC also represents companies that collect, process, manage, and market waste-derived fuels for use in cement kilns.

An Industry with Expertise in Chemical Management and Member Companies with a Desire to Help

ASIT GLOVE CEITIETT CO.	<u> </u>
Cement Plants	Cement Plants
AR, KS	SC
Ashland Distribution	Lafarge North America, Inc
OH	Cement Plants
Buzzi Unicem USA	KS, OH
Cement Plants	PSC
IN, MO	Fuel Blenders
Cadence Environmental Energy	AL, CA, MI, MO, TX, WA
Fuel Supplier	Rineco
IN	Fuel Blenders
Continental Cement Company	AR
Cement Plants	Schreiber, Yonley and Associates
MO	Consultants
Essroc Corporation	MO
Cement Plants	Systech Environmental Corp.
IN	Fuel Supplier KS, OH
Giant Cement Holding Inc.	·
Cement Plants	Tradebe/Pollution Control Industries, Inc. Fuel Blenders
PA, SC	IN, TN
Giant Resource Recovery Fuel Supplier	Trinity Consultants
PA, SC (Sumter, Harleyville), TX (Aerosols,	Consultants
Arvonia)	KS

CKRC Member Companies

• Why SC3?

- Goals: remove unnecessary chemicals from sensitive environments; Facilitate responsible chemical management; and Raise awareness of chemical risks at all levels in our schools.
- Unique: Brings together a variety of partners with different expertise to achieve its goals.
- Community Service: Industry partners, like CKRC's member companies, <u>donate</u> time and resources to facilitate a school clean up.

Multi-faceted Partnership Approach is Key to SC3's Success

Considering Involvement

- Extent of risks posed by harmful chemicals in schools can seem daunting and sometimes paralyzes potential partners to the point they decide NOT to get involved
- However, any contribution you make to the partnership facilitates success of the effort to clean up a school

Each School We Clean Up Brings Us One Step Closer to Reaching Every School in Need



Grandview High School, Grand View, MO

- Educate, Encourage and Facilitate member companies to get involved
- Serve as a proponent of the SC3 program within the CKRC membership and beyond
- Overall goal is to get every CKRC member company involved in an SC3 project in some way in the future

CKRC Became a Charter Member of SC3 in 2007





2007 Charter Member Ceremony at Wakefield High School in Arlington, VA

- Tradebe/Pollution Control Industries, Inc.
- Ash Grove Cement Company
- Cadence Environmental Energy, Inc.
- Giant Cement Company

Some CKRC Member Company Successes to Date



Cheyenne River Sioux Reservation School Cleanout



Cheyenne River Sioux Reservation
Dupree High School



Clean Up in process at Grandview High School in Grandview, MO

The Children

Benefit of Community and Schools

 Using our Expertise to Make a Difference

What Draws Industry Partners to a Program Like SC3?



Grandview High School Tree Planting Ceremony after a Successful Clean-up





Student from Dupree High School on the Cheyenne River Sioux Reservation (Eagle Butte, SD), the Tribal Environmental Protection Agency and Representatives from Tradebe recognized at an awards ceremony in Washington, DC

- Key Contact at the Schools
- Schools Often Apprehensive About Agreements and Getting Involved
- Time identifying and Developing Projects
- Costs, Partnering is Key
- Identifying Partners to Handle Wide Variety of Wastes from Clean Outs

What are some of the barriers to getting involved?

Four R's to Motivate Involvement:

REALITY

RESOURCES

RECOGNITION

RELATIONSHIPS

Ways to Motivate Entities to Get Involved



Problems are REAL and RESOURCES are needed



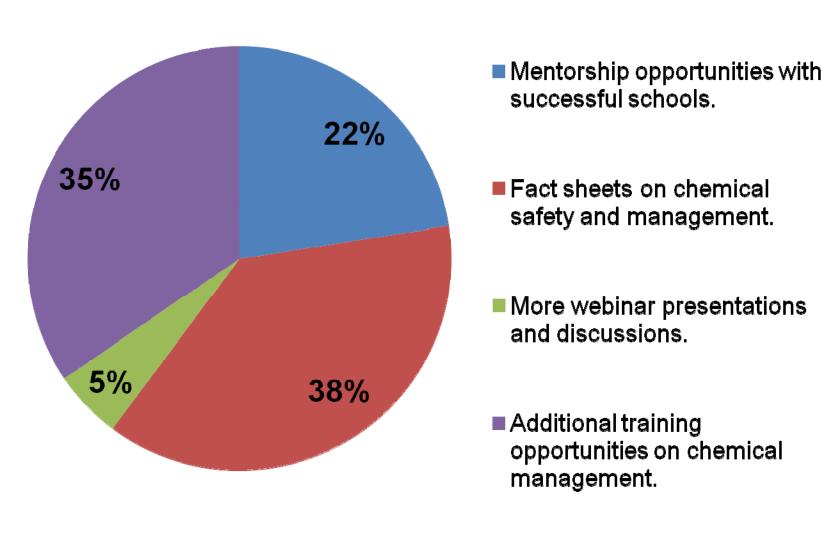
RECOGNIZE partnership efforts and build & maintain **RELATIONSHIPS**

SC3 Awards Ceremony in Washington, DC October 2009

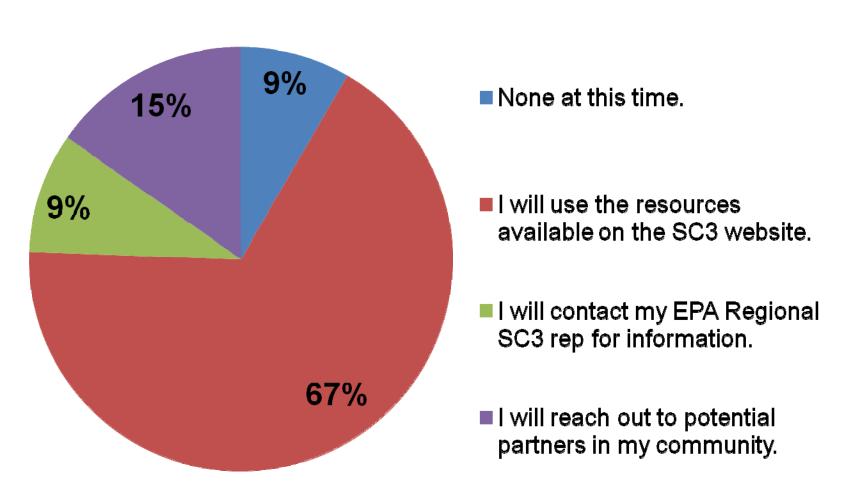
Cement Kiln Recycling Coalition (SC3 Charter Member) Michelle Lusk Director, Environmental Affairs and SC3 Program Involvement mlusk@ckrc.org 703-534-0892

Be Part of the Continued Success and GROWTH of SC3

What additional resources do you need to design and implement an SC3 component as part of your IAQ management program?



What steps will you take after attending this webinar to incorporate SC3 activities into your IAQ management program?



IAQ Tools for Schools Resources

- IAQ Tools for Schools Program
 - www.epa.gov/iaq/schools
- IAQ Tools for Schools Updates and E-mails:
 - Send an e-mail to: <u>IAQTfSConnector@cadmusgroup.com</u>
 - View archives at: www.epa.gov/iag/schools/bulletins.html
- Schools IAQ Connector Listsery:
 - Send a blank e-mail message to <u>schools_iaq_connector-</u> <u>subscribe@lists.epa.gov</u>. Then, check your e-mail inbox for your confirmation and membership details.
- IAQ Tools for Schools Webinar Resources
 - www.epa.gov/iaq/schools/webconferences.html



Schools Chemical Cleanout (SC3) Resources

www.epa.gov/SC3

- SC3 Video: Safe Chemical Management in Your School
- SC3 Workbook: Building Successful Programs to Address Chemical Risks in Schools
- Green Cleaning Fact Sheet
- Building Successful Programs to Address
 Chemicals in Schools: State Summaries
- Success Stories
- Comprehensive Partner Page



IAQ Tools for Schools Reminders

- Apply today for an IAQ Tools for Schools National Award.
 The deadline for competitive awards is October 8, 2010.
 - www.epa.gov/iaq/schools/awards.html
- Don't forget to register for the 2011 IAQ Tools for Schools National Symposium.

The Symposium will be held January 13-15, 2011, in Washington, D.C.

- www.epa.gov/iaq/schools/symposium.html
- View and download presentation slides and materials from this webinar!
 - www.epa.gov/iaq/schools/webconferences.html



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 Michelle Lusk <u>mlusk@ckrc.org</u>

